



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/027,870	10/26/2001	Holger Warth	Mo-6717/LeA 34,668	1030
157	7590	11/21/2006	EXAMINER	
BAYER MATERIAL SCIENCE LLC			BUTTNER, DAVID J	
100 BAYER ROAD			ART UNIT	
PITTSBURGH, PA 15205			PAPER NUMBER	
			1712	
DATE MAILED: 11/21/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/027,870

Applicant(s)

WARTH ET AL.

Examiner

David Buttner

Art Unit

1712

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 October 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,4,5,7-9 and 11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4,5,7-9,11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>10/20/06</u> . | 6) <input type="checkbox"/> Other: _____ |

Claims 1,2,4,5,7-9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over the J11349796 Patent in view of Nodera '443 or Obayashi '914.

The JP11349796 reference exemplifies blends of PC, SAN and silicon/acrylate graft. Oral translation indicates paragraph 19 calls for inorganic filler (termed "bulking agent" by the machine translation), but glass fibers are not named.

Nodera (col. 10, line 44,45,63) lists glass fiber etc in amounts of 2-30 pph as suitable filler in similar PC/grafted rubber compositions. Obayashi exemplifies the use of glass fiber in similar PC/ grafted rubber compositions. Obayashi teaches glass fibers are recognized for increasing rigidity of the resin (col 1 line 30). It would have been obvious to use glass fibers as the filler in the J'796 compositions in the conventional amounts for the expected reinforcing effect.

Note that viscosity average molecular weights are nearly equal to weight average molecular weights. Therefore, the reference's viscosity average molecular weight of 20,000 would fall within applicant's weight average molecular weight range.

Takahashi 2003/0112520 (paragraph 102) is cited for his more detailed description of the SAN 290FF that is believed used in J'796.

Claims 1,2,5 and 7-9 rejected under 35 U.S.C. 103(a) as being unpatentable over the JP08269314 Patent in view of Nodera '443 or Obayashi '914.

The JP08269314 reference exemplifies blends of PC, acrylic resin and Metablen S2001 (applicant's silicone graft). The acrylic resin can include styrene as a comonomer (paragraph 26). In the examples, the PC has an intrinsic viscosity of 0.5dl/g (or 0.05 l/g). This corresponds to a viscosity average molecular weight of 22,000 according to the

known correlation. Reinforcing materials such as fibers can be included (paragraph 56) although glass fibers and amounts thereof amounts are not specified.

Nodera (col. 10, line 44,45,63) lists glass fiber etc in amounts of 2-30 pph as suitable filler in similar PC/grafted rubber compositions. Obayashi exemplifies the use of glass fiber in similar PC/ grafted rubber compositions. Obayashi teaches glass fibers are recognized for increasing rigidity of the resin (col 1 line 30).

It would have been obvious to use glass fibers as the reinforcing fiber in the J '314 composition in the conventional amounts for the expected reinforcing effect.

Applicant's arguments filed 9/25/06 have been fully considered but they are not persuasive.

Arguments that the J'796 "excellent fluidity" will be lost upon inclusion of glass fibers is not convincing.

There is nothing of record that would predict the resultant glass fiber reinforced composition of J'796 would be intractable or unprocessable. The inclusion of glass fibers would not have been expected to render the J'796 unsatisfactory for its intended purpose. It appears glass fibers perform their expected function of increasing reinforcement/stiffness at the expense of some decrease in fluidity. Nodera teaches the inorganic filler such as glass fibers increase rigidity (col 10 line 45). The fact that the J'796 composition (prior to inclusion of glass fiber) was touted as having excellent flowability actually makes the proposed inclusion more feasible/obvious. The easily processable composition would be expected to tolerate some decrease in flow rate in

order to increase stiffness etc. J'796 does not forbid the inclusion of additives that increase the viscosity to some extent.

Applicant argues Obayashi includes "extra" ingredients and that Nodera does not require a silicone acrylate graft (C).

The two secondary references are merely relied on to teach types and amounts of common fillers for polycarbonates. Arguing that secondary references are not anticipatory is never convincing to withdraw an obviousness rejection based on a combination of references (MPEP 2145 IV). The only issue is whether or not glass fibers would be an obvious inclusion to JP11349796's composition.

Applicant argues JP08269314's acrylic resin no longer meets applicant's (B).

This is not convincing because the reference calls for styrenic comonomers in the acrylic resin. Such a copolymer would have "at least one vinyl aromatic" monomer.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Buttner whose telephone number is 571-272-1084. The examiner can normally be reached on weekdays from 10 to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski, can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

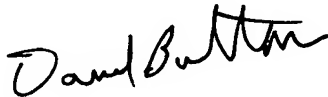
Art Unit: 1712

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DAVID J. BUTTNER
PRIMARY EXAMINER

D. Buttner
11/15/06

A handwritten signature in black ink, appearing to read "David Buttner", written in a cursive style.